

25X1 25X1 Copy 7 of 11 13 September 66 NRO Review Completed. MEMORANDUM FOR THE RECORD SUBJECT: U-2R Standard Aircraft Characteristics Chart REFERENCE: LAC Report SP-937, "Proposal for U-2R Airplane", 27 December 1965 Attached herewith is one copy of the U-2R Standard Aircraft Characteristics Chart prepared by ASD/D/R&D/OSA. This chart represents the ASD/Lockheed estimated performance of the U-2R aircraft for the exact configuration as proposed in the reference report. It does not include the various 25X1 include the current off-the-shelf payload configuration as used in the U-2C. Subsequent revisions to this chart will be prepared and issued as the program progresses and more data become available. 25X1 Deputy for Research and Development Special Activities 25X1 APD/OSA/ pca (13 Sept 66) Attachment - 1 As noted above Distribution: 1 - D/R&D/OSA w/att 2 - D/SA w/att3 - DD/SA w/att4 - D/O/OSA w/att - D/M/OSA w/att - IDEA Div/O/OSA w/att 7 - ASD/OSA w/att - PSD/OSA w/att 25X1 9 - SSD/OSA w/att 10 - ASD/OSA (Chrono) wo/att 11 - RB/OSA wo/att TOP SECRET GROUP 1 xeluded from automatic

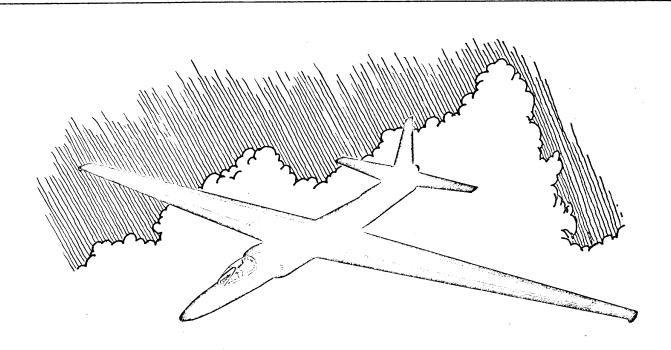
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downgrading and declassification

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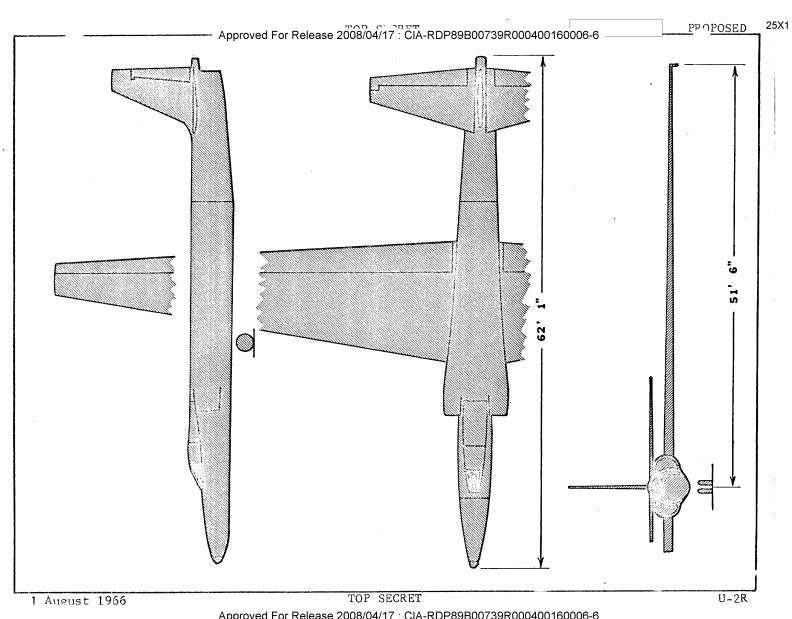
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STANDARD AIRCRAFT CHARACTERISTICS

U-2R

TOP SECRET



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POWER PLANT MISSION AND DESCRIPTION WEIGHTS Nbr. & Model....(1) J75P-13B The mission of the U-2R model air-Mfr.....Pratt & Whitney A/C plane is to perform aerial photo and Loading Engine Spec Nbr. N-2614G -2614G electronic reconnaissance.
Appendix B The U-2R is a single-place, single Normal T.O.....30,130** 2.5 Overload T.O....36,750+ 2 *Includes 100 1bs. of unus-able fuel and 945 1bs. pay-2.0 Length............132.62 In. an improved design which utilizes the (Not Including Tailpipe) salient features of the U-2C model. load. ** Zero fuel weight plus Diameter (Max Flange) The improvements made have been in the Weight Dry (Spec)...4,960 Lbs
RATING
RATING

42.94 In. use of a larger wing, higher thrust available, increased payload flexibility and higher fuel capacity. The 12,730 lbs. of fuel + Zero fuel weight plus 19.350 lbs of fuel Condition SFC improvements in the wing, thrust and fuel capacity have enabled the U-2R to Thrust FUEL AND OIL S.L.S. 17,000 lbs. FUEL have higher altitude capability, range LOCATION **GALLONS** and speed than its predecessor, the **ELECTRONICS** Normal Wing Fuel.....1,935 Overload Wing Fuel....1,006 Spec.....MIL-J-5161E (ASG) U-2C. This airplane has the necessary Comm. & Nav. Systems provisions for operations from naval AN/ARC-34.....UHF Radio aircraft carriers.
AN/ARC-51.....UHF Radio 25X1 OIL 618-T.....HFSSB Radio 9 gallons AN/ARC-59 Radio Compass (ADF) ARC Type 15F.....UHF (VOR) 914-1 (Wilcox).....IFF Spec.....MIL-L-23699 ARC-12.....UHF Radio PHOTO-SENSORS Proposed photo-sensors and characteristics are shown on separate page of this docu-DEVELOPMENT Proposal......27 December 1965 DIMENSIONS *Presented in Lockheed proposal and do not represent contemplated U-2R defensive10.67 Aspect Ratio..... systems. Subsequent charts Length 62 Ft. 1.0 In. to be published reflecting U-2R defensive systems capability.

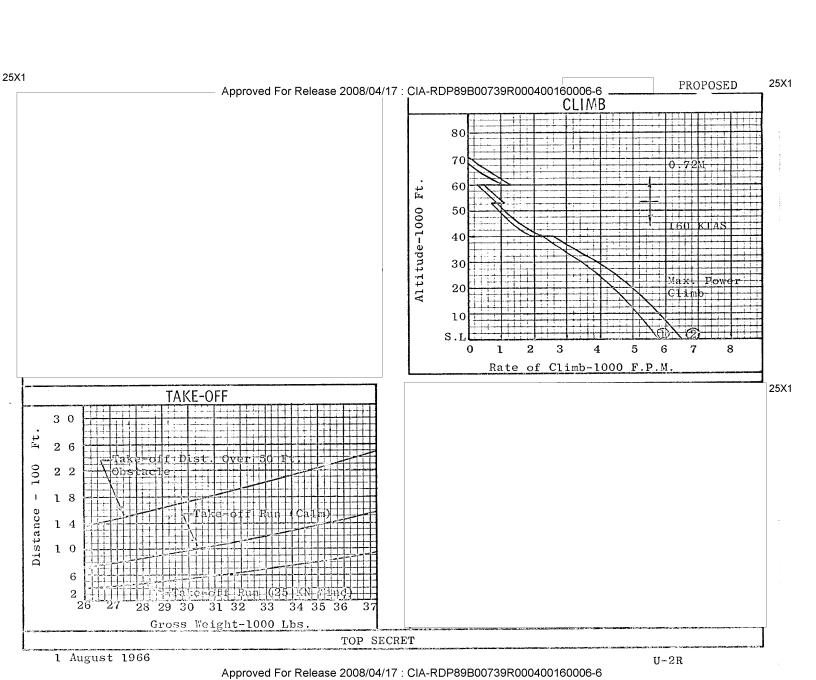
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Approved For			RDP89B00739R0004	100160006-6	OPOSED
	1	PERFORMANCE SU	JMMARY	_	
TAKE-OFF LOADING CONDITION			1	2	
TAKE-OFF WEIGHT		1b.	30,130	26,790	
Fuel internal/external	(B)	1b./1b.	12,730/-	9,390/-	
Payload		1b.	945	945	
Wing loading		1b./sq. ft.	30.13	26.79	
Stall speedpower off	(C)	kn.	89.5	84.5	
Take-off run at S.L calm		ft.	1,000	782	
Take-off run at S.L25 kn. wind		ft,	560	420 ·	
Take-off to clear 50 ft calm		ft.	1,730	1,432	
Max. speed/at maximum altitude		kn./ft.	413/Max, Alt,	413/Max. Alt.	
Rate of climb at S.L.		fpm	5,775	6,520	
Time: S.L. to 65,000 ft.		Hrs.	0.68	0.54	
Time: S.L. to Max, Initial Alt,		Hrs.	1,1	1.1	
Max, Initial Altitude		ft.	68,20 0		
Range	(A)	n.mi.	3,959	2,793	
Average Cruising Speed		M/kn.	0.72/413	0.72/413	
Max. Cruising altitude(s)			68,200		:
Mission radius/mission time		n.mi/hr.	1979/9.7	1396/6.8	
Average cruising speed		M/kn.	0,72/413	0.72/413	
LANDING WEIGHT		1b.	18.387	18,387	
Fue1		1b.	987	987	
Stall speed-power-off/approach p	ower(C)/(D) _{kn/kn} .	70/64,8	70/64.8	
Landing distance over 50 ft. obs	t/grou	nd rollft/ft	1690/942	1690/942	

No credit for descent distance

Performance Basis: Estimated

Fuel density 6.58 Lbs./Gal. Flaps Up Flaps Down 35 Degrees



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